

1/12

配列表

SEQUENCE LISTING

<110> The Institute of Physical and Chemical Research and Kabushiki Kaisha
Dnaform

<120> Novel Polypeptide and Nucleic Acid Encoding the Same

<130> 02PF257-PCT

<160> 18

<210> 1

<211> 184

<212> PRT

<213> Homo sapiens

<400> 1

Met	Thr	Ser	Phe	Glu	Asp	Ala	Asp	Thr	Glu	Glu	Thr	Val	Thr	Cys	Leu
1				5					10					15	
Gln	Met	Thr	Val	Tyr	His	Pro	Gly	Gln	Leu	Gln	Cys	Gly	Ile	Phe	Gln
			20					25					30		
Ser	Ile	Ser	Phe	Asn	Arg	Glu	Lys	Leu	Pro	Ser	Ser	Glu	Val	Val	Lys
		35					40					45			
Phe	Gly	Arg	Asn	Ser	Asn	Ile	Cys	His	Tyr	Thr	Phe	Gln	Asp	Lys	Gln
	50					55					60				
Val	Ser	Arg	Val	Gln	Phe	Ser	Leu	Gln	Leu	Phe	Lys	Lys	Phe	Asn	Ser
65				70					75				80		
Ser	Val	Leu	Ser	Phe	Glu	Ile	Lys	Asn	Met	Ser	Lys	Lys	Thr	Asn	Leu
			85					90					95		
Ile	Val	Asp	Ser	Arg	Glu	Leu	Gly	Tyr	Leu	Asn	Lys	Met	Asp	Leu	Pro
			100					105					110		
Tyr	Arg	Cys	Met	Val	Arg	Phe	Gly	Glu	Tyr	Gln	Phe	Leu	Met	Glu	Lys
			115					120					125		

2/12

Glu Asp Gly Glu Ser Leu Glu Phe Phe Glu Thr Gln Phe Ile Leu Ser
130 135 140
Pro Arg Ser Leu Leu Gln Glu Asn Asn Trp Pro Pro His Arg Pro Ile
145 150 155 160
Pro Glu Tyr Gly Thr Tyr Ser Leu Cys Ser Ser Gln Ser Ser Ser Pro
165 170 175
Thr Glu Met Asp Glu Asn Glu Ser
180

<210> 2

<211> 1613

<212> DNA

<213> Homo sapiens

<400> 2

ggcacgaggg agaggacgtg ctctgccagc cagtgggaag gcaggccgcg cgcgcgggag 60
cgcgggagga tcggcggctc gcggtcactg gtccctggct cggttccccg caccocgggg 120
ctcacactta cccgcgcgga ggagcagcgg ccgggtgtcc acccccatcc tgcgcccagt 180
ctcctcgatt cccctcgctc tgagccggga gagccgaaca gctgaagaga gttcactgac 240
tccccagccc caggtgggcc ttgtgcacat c atg acc agt ttt gaa gat gct 292

Met Thr Ser Phe Glu Asp Ala

1

5

gac aca gaa gag aca gta act tgt ctc cag atg acg gtt tac cat cct 340
Asp Thr Glu Glu Thr Val Thr Cys Leu Gln Met Thr Val Tyr His Pro

10

15

20

ggc cag ttg cag tgt gga ata ttt cag tca ata agt ttt aac aga gag 388
Gly Gln Leu Gln Cys Gly Ile Phe Gln Ser Ile Ser Phe Asn Arg Glu

25

30

35

aaa ctc cct tcc agc gaa gtg gtg aaa ttt ggc cga aat tcc aac atc 436
Lys Leu Pro Ser Ser Glu Val Val Lys Phe Gly Arg Asn Ser Asn Ile

40	45	50	55	
tgt cat tat act ttt cag gac aaa cag gtt tcc cga gtt cag ttt tct	484			
Cys His Tyr Thr Phe Gln Asp Lys Gln Val Ser Arg Val Gln Phe Ser				
60	65	70		
ctg cag ctg ttt aaa aaa ttc aac agc tca gtt ctc tcc ttt gaa ata	532			
Leu Gln Leu Phe Lys Lys Phe Asn Ser Ser Val Leu Ser Phe Glu Ile				
75	80	85		
aaa aat atg agt aaa aag acc aat ctg atc gtg gac agc aga gag ctg	580			
Lys Asn Met Ser Lys Lys Thr Asn Leu Ile Val Asp Ser Arg Glu Leu				
90	95	100		
ggc tac cta aat aaa atg gac ctg cca tac agg tgc atg gtc aga ttc	628			
Gly Tyr Leu Asn Lys Met Asp Leu Pro Tyr Arg Cys Met Val Arg Phe				
105	110	115		
gga gag tat cag ttt ctg atg gag aag gaa gat ggc gag tca ttg gaa	676			
Gly Glu Tyr Gln Phe Leu Met Glu Lys Glu Asp Gly Glu Ser Leu Glu				
120	125	130	135	
ttt ttt gag act caa ttt att tta tct cca aga tca ctc ttg caa gaa	724			
Phe Phe Glu Thr Gln Phe Ile Leu Ser Pro Arg Ser Leu Leu Gln Glu				
140	145	150		
aac aac tgg cca cca cac agg ccc ata ccg gag tat ggc act tac tcg	772			
Asn Asn Trp Pro Pro His Arg Pro Ile Pro Glu Tyr Gly Thr Tyr Ser				
155	160	165		
ctc tgc tcc tcc caa agc agt tct ccg aca gaa atg gat gaa aat gag	820			
Leu Cys Ser Ser Gln Ser Ser Ser Pro Thr Glu Met Asp Glu Asn Glu				
170	175	180		
tca tgaacacaga aagtotaaga ggagaaatat gatggatgaa gagctctgta	873			
Ser				
gatgctgtat agacactaaa taagagttga ttagggtagt atattatagt catctgttat				933

gctgtgaaat ttggaattca aaattttgaa gtctgtaaat tgtgttagtc attaacttag 993
 tcacctgttg tattctggat ctacacaaaa ttattttaag tgctcttatt aatctgtgag 1053
 gattaatata caaaaagtat cctttgagat gaagtogtgt totcaaaata aggttatatt 1113
 attttctttt tctgcttgat tttcatcttg tgttttgctt tgtttttgta aggaaccatc 1173
 tcttggtttg gtcacatcag ttcacaacag ccatttgttt tcaaggtcaa ggctccaggc 1233
 aggttggttac tgggtgttgc agcctgtcag tacttgcagt actggaatag gttctaggct 1293
 agtgtctgcg cgtcactgtg gtttttagcat gggaggactt atttgagaaa tactacctta 1353
 cttttctatg atttcttttt acagagttat agtgtgttta ctctaagat gacagttctc 1413
 tttgtctata ttcagcatct aagacaaata tttaaacatt ttaaagaacc actgtgttaa 1473
 gtttaggatt atttacttac caaattagaa gtttgacttt tatgtgttat acacaatctt 1533
 aaaatttcac gaattcacct ttttaatagt atccatgtac ataataaaat caaagtttaa 1593
 ttaaaaaaaaa aaaaaaaaaa 1613

<210> 3

<211> 184

<212> PRT

<213> mouse

<400> 3

Met Ser Thr Phe Glu Asp Ala Asp Thr Glu Glu Thr Val Thr Cys Leu

1 5 10 15

Gln Met Thr Ile Tyr His Pro Gly Gln Gln Ser Gly Ile Phe Lys Ser

20 25 30

Ile Arg Phe Cys Ser Lys Glu Lys Phe Pro Ser Ile Glu Val Val Lys

35 40 45

Phe Gly Arg Asn Ser Asn Met Cys Gln Tyr Thr Phe Gln Asp Lys Gln

50 55 60

Val Ser Arg Ile Gln Phe Val Leu Gln Pro Phe Lys Gln Phe Asn Ser

65 70 75 80

Ser Val Leu Ser Phe Glu Ile Lys Asn Met Ser Lys Lys Thr Ser Leu

5/12

	85		90		95
Met Val Asp Asn Gln Glu Leu Gly Tyr Leu Asn Lys Met Asp Leu Pro					
	100		105		110
Tyr Lys Cys Met Leu Arg Phe Gly Glu Tyr Gln Phe Leu Leu Gln Lys					
	115		120		125
Glu Asp Gly Glu Ser Val Glu Ser Phe Glu Thr Gln Phe Ile Met Ser					
	130		135		140
Ser Arg Pro Leu Leu Gln Glu Asn Asn Trp Pro Thr Gln Asn Pro Ile					
	145		150		155
Pro Glu Asp Gly Met Tyr Ser Ser Tyr Phe Thr His Arg Ser Ser Pro					
	165		170		175
Ser Glu Met Asp Glu Asn Glu Leu					
	180				

<210> 4

<211> 1970

<212> DNA

<213> Mouse

<400> 4

gagttaggag cagcttgtcc cgcgtgcgca gctgggttgt cagtgtgcg gtgtacctaa	60
cacaccgaca cagacccttc ttttttctcc caggagagga gacaaggctc aggagtcctg	120
atctagctgt ggccactgga agactctcag gccggggagc gtc atg tcc acc ttt	175
Met Ser Thr Phe	
1	
gaa gac gct gat aca gag gag acg gtc act tgt ctc cag atg acc att	223
Glu Asp Ala Asp Thr Glu Glu Thr Val Thr Cys Leu Gln Met Thr Ile	
5 10 15 20	
tac cat cct ggc caa caa agt ggg ata ttt aaa tca ata agg ttt tgc	271
Tyr His Pro Gly Gln Gln Ser Gly Ile Phe Lys Ser Ile Arg Phe Cys	

	25	30	35	
agc aaa gag aag ttt cct tcc att gaa gtg gtg aaa ttt gga cgc aat				319
Ser Lys Glu Lys Phe Pro Ser Ile Glu Val Val Lys Phe Gly Arg Asn				
	40	45	50	
tcc aac atg tgc cag tat acg ttt cag gac aaa cag gtg tcc cga att				367
Ser Asn Met Cys Gln Tyr Thr Phe Gln Asp Lys Gln Val Ser Arg Ile				
	55	60	65	
cag ttt gtt tta cag cgc ttt aaa cag ttc aac agc tcc gtt ctc tcg				415
Gln Phe Val Leu Gln Pro Phe Lys Gln Phe Asn Ser Ser Val Leu Ser				
	70	75	80	
ttt gaa ata aaa aac atg agc aag aaa acc agt ttg atg gta gac aac				463
Phe Glu Ile Lys Asn Met Ser Lys Lys Thr Ser Leu Met Val Asp Asn				
	85	90	95	100
cag gag ctc ggc tac ctc aat aaa atg gac ctg cct tac aag tgt atg				511
Gln Glu Leu Gly Tyr Leu Asn Lys Met Asp Leu Pro Tyr Lys Cys Met				
	105	110	115	
ctc agg ttc gga gag tat cag ttc ctg ttg cag aag gaa gac gga gag				559
Leu Arg Phe Gly Glu Tyr Gln Phe Leu Leu Gln Lys Glu Asp Gly Glu				
	120	125	130	
tcg gtg gaa tct ttt gag act caa ttt atc atg tct tca aga cct ctc				607
Ser Val Glu Ser Phe Glu Thr Gln Phe Ile Met Ser Ser Arg Pro Leu				
	135	140	145	
ttg caa gaa aac aac tgg cca aca cag aat ccc ata cca gag gat ggg				655
Leu Gln Glu Asn Asn Trp Pro Thr Gln Asn Pro Ile Pro Glu Asp Gly				
	150	155	160	
atg tat tct tca tac ttc acc cac aga agt tct cct tca gaa atg gat				703
Met Tyr Ser Ser Tyr Phe Thr His Arg Ser Ser Pro Ser Glu Met Asp				
	165	170	175	180
gaa aac gaa ctg tgaagagggt ccaactggag acacattgaa ggatgaggac				755

Glu Asn Glu Leu

```

acatgggtcg gatgtcaaga gacatcctac ttccgagttt gtgagtgtag cgtagcgcgg 815
ctgtcctcat gctgactttc gttttggtaa tagcatttgg aagtctctag actgtgttaa 875
tcatcaactt agtcaactga gtttcggctc tacaaagaat taagtgtaca totgtaaagg 935
ttggtgcacg agacacgtct totgggtaat gaggtcacc ttgttgcttt tctgcatgat 995
gttaccacca tgctttgtct tgggtggcagc catctcttgg cccggtcaca tcatttcgta 1055
gcagcctttg tttttcaggt ttagagctcg ggcagattgc tcactggtgt ctgtggcgtg 1115
ctagcgcttg tagaactaga gtccctggaat aagttctaga gtgctgagtc actgagtcac 1175
catggcttcc ttatggaaag acttgggaaa tagctccttg attttctttc tgtggaacgg 1235
tagtgtcgct ttctatatg taggacctac aacaaacatt taaagaacac tgagatgaag 1295
atggttttct tacaatattg aaagtgaatt ttatgtatct cacagattta aaaatggcag 1355
aatcaaaaac ttttaacagc ctctttgcac atgataaagc cggagcccag ttcttagtt 1415
gcttctttgg aacttcttaa aggaaaacat gtattcttaa aggaaaacat ctattcttag 1475
gtgccctat agaagtcagt acctgtgaat atttatatta aatgcttaat tatttctaaa 1535
attttagttt cacataaagt tgtatttatt taaaagattc tcattcactt cattttggct 1595
agattaagat gaatgttagt gaacattatg taaaagagga tgaaagccat taagttaaga 1655
taaattctag cattactagt aagtaaggca cctgtatag cttcctctgt aaatgaaatt 1715
taatgctgta acaggtacag gattttgggt aggggaggag gtcaggtggg ggaagttagc 1775
cacattcata ttttgTTTTT gtttttgttt ttgtttttgt tttgttttc caacaatagc 1835
ttgctttgaa gctcaggctg gcttggaaact cttgatcctc atacatcggc cccctgaatg 1895
ctgtgcctag cttaatgtaa ctgtatttct gcaacagccc ttgaaatta tttctaataa 1955
actgtttggc ctagt 1970

```

<210> 5

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer for PCR

<400> 5

gaaggagccg ccaccatgtc cacctttgaa gacg

34

<210> 6

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer for PCR

<400> 6

gaaggagccg ccaccatggc tgcagccagt gt

32

<210> 7

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer for PCR

<400> 7

agcggataac aatttcacac aggaaa

26

<210> 8

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer for PCR

<400> 8

gtttcctgtg tgaaattgtt atccgctgca gacatgataa gatacattg

49

<210> 9

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer for PCR

<400> 9

agcaagttca gcctgggttaa gatccttatac gattttacca c

41

<210> 10

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer for PCR

<400> 10

ccaatatgac cgccatgttg gc

22

<210> 11

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer for PCR

<400> 11

catggtggcg gctccttccg gcgatacagt caactg

36

<210> 12

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer for PCR

<400> 12

ccaatatgac cgccatgttg gc

22

<210> 13

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer for PCR

<400> 13

catggtggcg gotccttcaa gtcgacggat ccctggc

37

<210> 14

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer for PCR

<400> 14

gccatgttgg cattgattat tgac

24

<210> 15

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer for PCR

<400> 15

agcaagttca gcctggttaa g

21

<210> 16

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer for PCR

<400> 16

gacgcgtcga ccatgtccac ctttgaagac g

31

<210> 17

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer for PCR

<400> 17

gacgcgtcga ccatggctgc agccagtgt

29

<210> 18

<211> 43

<212> DNA

<213> Artificial Sequence

12/12

<220>

<223> Oligonucleotide primer for PCR

<400> 18

ccggttaagc ggccgcagcg gataacaatt tcacacagga aac

43